

INTRODUCTION

The Vulcan RFID Electra is a modern, pad-style desktop reader with an integrated 2D imager, designed for applications that demand accuracy and simplicity. It fits seamlessly into compact workspaces, such as retail counters and desktops, to speed up transactions.

The Vulcan RFID Electra features:

- Dual scanning capability: UHF RFID and 2D barcode imager.
- USB Type A male connector for easy plug-and-play setup.
- · Compatible with Windows, Mac, and Linux operating systems.
- · Converts RFID tags using the GS1 standard label for checkout.
- Built-in antenna to restrict unwanted RFID tag readings.
- Two operating modes: autonomous mode for automatic reads and transparent mode for software development.
- Simple, USB-powered operation for both communication and power.
- · Keyboard wedge emulation for automatic input into any system.
- API support for custom development and integration in C, .NET (C#), and Java.
- Compact design fits easily on desktops and counters, ideal for POS setups.
- · Seamless integration with RFID solutions for quick implementation.
- · Versatile and adaptable for a variety of operational scenarios.
- Compatible with Vulcan RFID Read, Write & Verify Software.

In the box: Vulcan RFID Electra Reader & Integrated USB Cable

GETTING STARTED

SETUP METHOD 1 AUTONOMOUS MODE

The reader's default mode is autonomous mode, where the reader transmits data via keyboard emulation.

- 1. Plug the reader's USB cable into your computer's USB port.
- 2. To read a tag, put your cursor into any text field and place a tag on top of the reader. The tag data will populate in the text field.
- 3. To easily turn off/on tag reading, quickly press the Caps Lock key twice (Windows and Linux only). The green LED will turn off, and the red LED will flash slowly, indicating that the reader is idle.
- 4. Place a barcode in front of the barcode reader to read and report a barcode.



SETUP METHOD 2 TRANSPARENT MODE

In transparent mode, the reader is controlled by software built using the ThingMagic Mercury API, such as the Universal Reader Assistant software.

To easily switch between autonomous and transparent modes, quickly press the Caps Lock key five times (Windows and Linux only).

Note: This shortcut will only work when the reader's serial port is not connected/not currently being used by a software.

1. Open the Universal Reader Assistant software. The software should detect and display the connected reader.

Oniversal Reader Assistant - Connection Wizard							
Universal Reader Assistant Connection Wizard							
Select Reader	Connection Settings	Connect/Read					
•	O	— O					
Please Select a Reader							
Reader Type :	● Serial Reader ○ Network Reader ○ Custom Tr	ansport Reader					
Reader Name :	USB Serial Device-48230067952238269+ ((~						
	Refresh						
		Next Skip					

- 2. Click Next. Choose your region of operation, and select Antenna 1.
- 3. Click Next and then click Connect & Read to begin reading tags.

🕲 Universial Reader Assistant 6.3 – 👌 🗙							
Reader : Mile Nano (COM13) 🔴 Reading Disconnect 🐚 🔛 🛔 47°C 🛔 🕐							
Tag Re	sults Tag Inspector Write EPG	User Memory Lock Tag	Untraceable Authenticate		🐹 Settings/Status		
= #	EPC	Time Stamp (ms)	RSSI (dBm)	Read Count	Connect		
	000000000000000000000000000000000000000	02:55:26.768 PM	-57	2	Connect		
2	E2801191A5040072D28ED743	02:55:26.935 PM	-48	3			
3	E2801191A5040072D290F2D3	02:55:26.917 PM	-42	2	Reader Type : Serial Network Custom Transport		
4	00000000000000000000015	02:55:27.038 PM	-51	4	Reader Name - USB Serial Device-48230067952238269+ (COM13)		
5	00000000000000000000025	02:55:26.953 PM	-64	2	Reader Name . Use schere wasseer states to recommend		
	E2801191A5040072D28F2893	02:55:26.913 PM	-45	2	Transport Logs		
2	E2801191A5040072D28ED764	02:55:26.947 PM	-60	2	Refresh Disconne	t	
8	00000000000000000000024	02:55:27.048 PM	-59	3		_	
9	E2801191A5040072D290F2F3	02:55:27.034 PM	-49	3	Baud Rate : 115200 ~		
10	E2801191A5040072D28EC3E3	02:55:26.927 PM	-46	2	B 1 N/02		
11	000000000000000000000043	02:55:26.862 PM	-57	1	Region : 1942		
12	000000000000000000000000000000000000000	02:55:26.876 PM	-61	1			
13	E2801191A5040072D28ED723	02:55:27.074 PM	-58	1			
14	E2801191A5040072D28EC3C3	02:55:27.078 PM	-51	1	Load/Save Profile	- III	
15	0000000000000000000014	02:55:27.149 PM	-52	2	Load Save		
16	0000000000000000000033	02:55:27.090 PM	-51	1			
17	0000000000000000000150	02:55:27.094 PM	-49	1	Read/Write Options		
18	0000000000000000000000000042	02:55:27.100 PM	-41	1			
19	E2801191A5040072D28ED784	02:55:27.107 PM	-52	1	Performance Tuning		
20	00000000000000000000023	02:55:27.328 PM	-57	2	Performance Metrics		



Scan the QR code or visit www.vulcanRFID.com/support to view more information on setting up and using the Vulcan RFID Electra UHF RFID Reader.

